

ABSTRACT OF THE DISCLOSURE

A method of independently producing a negative electrode for a lithium secondary cell having thin films of lithium and a sulfide-based inorganic solid electrolyte begins with a negative electrode base material and an inorganic solid electrolyte source material being removed from closed containers in a chamber space, which is substantially inactive to lithium and insulated from air. The materials are transferred into an adjacent thin film deposition system without being exposed to the air. In the system, the source material is used to form a thin film of an inorganic solid electrolyte on the base material, to make the electrode. The electrode is transferred, without being exposed to the air, into a chamber space, which is substantially inactive to lithium, where the electrode is placed into a closed container. Thus, a negative electrode can be produced without being degraded by air.